

WHAT IS CLAIMED IS:

1. A fuel feed apparatus disposed in a fuel tank comprising:

a sub tank included in the fuel tank;

a fuel pump, included in the sub tank, for sucking fuel in the sub tank so as to discharge the fuel sucked from the sub tank; and

a jet pump having a jet nozzle for generating suction pressure by jetting fuel, the jet pump being for sucking fuel in the fuel tank by the suction pressure generated by the jet nozzle so as to supply the fuel sucked in the fuel tank to the sub tank,

wherein, the jet nozzle is conductive and grounded.

2. A fuel feed apparatus according to claim 1, wherein the jet nozzle and the sub tank are resinous and conductive.

3. A fuel feed apparatus according to claim 1, wherein the jet nozzle directly connects with the sub tank.

4. A fuel feed apparatus according to claim 1, wherein the jet nozzle is provided in a bottom area of the sub tank.

5. A fuel feed apparatus according to claim 1, further comprising:

a fuel filter for removing debris contained in fuel discharged by the fuel pump; and

a pressure regulator for adjusting pressure of fuel flowing from the fuel filter while generating surplus fuel,

wherein the pressure regulator supplies the surplus fuel thereof toward the jet nozzle.

6. A fuel feed apparatus according to claim 5, wherein the fuel filter is connected with the sub tank and includes a grounding terminal.

7. A fuel feed apparatus according to claim 2, further comprising:

a fuel inlet pipe for supplying fuel to the fuel pump, wherein the fuel inlet pipe is resinous and conductive and integrally formed with the sub tank.

8. A fuel feed apparatus disposed in a fuel tank comprising:

a sub tank included in the fuel tank;

a fuel pump, included in the sub tank, for sucking fuel in the sub tank so as to discharge the fuel sucked from the sub tank; and

a jet pump having a jet nozzle for generating suction pressure by jetting fuel, the jet pump being for sucking fuel in the fuel tank by the suction pressure generated by the jet nozzle so as to supply the fuel sucked in the fuel tank to the sub tank,

wherein:

the sub tank is conductive and grounded; and  
the jet nozzle is conductive and directly connected  
with the sub tank so as to be grounded.

9. A fuel feed apparatus according to claim 8, wherein  
the fuel pump supplies fuel to the jet nozzle through a  
conductive tube, and the fuel pump is grounded via the  
conductive tube, the jet nozzle and the sub tank.

10. A fuel feed apparatus according to claim 8, further  
comprising:

a mounting member mounted on the fuel tank; and

a joining member, wherein the joining member is  
conductive and connects the mounting member and the sub tank  
so as to be grounded via the sub tank.

11. A fuel feed apparatus according to claim 10, further  
comprising:

a forcing member provided around an outer periphery of  
the joining member,

wherein the forcing member applies force so that the  
sub tank depart from the mounting member.

12. A fuel feed apparatus according to claim 11, wherein  
the forcing member is conductive and grounded via the joining  
member and the sub tank.

13. A fuel feed apparatus according to claim 8, further comprising:

a mounting member mounted on the fuel tank;

a supporting member having conductivity connected with the sub tank; and

a joining member, for connecting the mounting member and the supporting member, having conductivity and grounded via the supporting member and the sub tank.

14. A fuel feed apparatus according to claim 13, further comprising:

a forcing member provided around an outer periphery of the joining member,

wherein the forcing member applies force so that the supporting member depart from the mounting member.

15. A fuel feed apparatus according to claim 14, wherein the forcing member is conductive and grounded via the joining member, supporting member and the sub tank.

16. A fuel feed apparatus disposed in a fuel tank having conductivity and grounded comprising:

a sub tank included in the fuel tank;

a fuel pump, included in the sub tank, for sucking fuel in the sub tank so as to discharge the fuel sucked from the sub tank; and

a jet pump having a jet nozzle for generating suction

pressure by jetting fuel, the jet pump being for sucking fuel in the fuel tank by the suction pressure generated by the jet nozzle so as to supply the fuel sucked in the fuel tank to the sub tank,

wherein:

the sub tank has conductivity; and

the jet nozzle is conductive and directly connected with the sub tank so as to be grounded via the sub tank and the fuel tank.

17. A fuel feed apparatus disposed in a fuel tank having conductivity and grounded comprising:

a sub tank included in the fuel tank;

a fuel pump, included in the sub tank, for sucking fuel in the sub tank so as to discharge the fuel sucked from the sub tank; and

a jet pump having a jet nozzle for generating suction pressure by jetting fuel, the jet pump being for sucking fuel in the fuel tank by the suction pressure generated by the jet nozzle so as to supply the fuel sucked in the fuel tank to the sub tank,

wherein:

the jet nozzle is conductive and contacts the fuel tank so as to be grounded via the fuel tank.